













## Build and Test a Conductivity Probe with Arduino

TeachEngineering

### Design

Construct simple conductivity probes and then integrate them into two different circuits to test the probe behavior in solutions of varying conductivity.

| Suggested Learning  |                       |  |   |                      |           |
|---|-----------------------|--|---|----------------------|-----------|
| Time  | 3 : 00                | Cost   | 0.00  |                      |           |
| PreRequisites   |                       |  |   |                      |           |
| Requirements  |                       |  |   |                      |           |
| Skills  |                       |  |   |                      |           |
|   |                       | Focus  | Level   | Standard             | Points    |
|    | Applied Science       |    |    | <a href="#">NGSS</a> | 12        |
|    | Written Communication |    |    | <a href="#">CC</a>   | 4         |
|   | Mathematics           |   |  | <a href="#">CC</a>   | 4         |
|    | Chemistry             |  |  |                      | 4         |
| <b>Total Skill Points</b>   |                       |  |   |                      | <b>24</b> |
| Knowledge Gain  |                       |  |   |                      |           |
| Identify whether a solution is conductive. Construct a functional conductivity probe.   |                       |  |   |                      |           |
| Resource Link   |                       |  |   |                      |           |
| <a href="https://www.teachengineering.org/activities/view/nyu_probe_activity1">https://www.teachengineering.org/activities/view/nyu_probe_activity1</a> |                       |  |   |                      |           |

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